ABSTRACT

A data network including at least one crossbar, wherein each crossbar comprises N ports and a plurality N of devices each associated with and

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connected to one port of one of ~~said~~ *the* crossbars.   Each one port of one crossbar

5 includes an input buffer, a plurality N-1 of port output buffers, a plurality N-1 of

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fullness sensors, shutoff ~~means~~ *devices* . The input buffer receives messages from the

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device connected to its port and sends ~~said~~ *the* messages to the other ports of ~~said~~ *the*

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one crossbar.   Each port output buffers corresponds to one of ~~said~~ *the* other ports,

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wherein each port output buffer receives ~~said~~ *the* messages only from ~~said~~ *the* input

10 buffer of its associated other port.   Each fullness sensor is associated with one

port output buffer and measures the fullness state of its associated port output

buffer.

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